

## **Safety Review Committee**

**August 19, 2005**

**10:00 AM – 12:00 PM**

### **Minutes**

<b>Committee Member</b>	<b>Representing</b>	<b>Present</b>
Ager, Joel W.	Materials Sciences Division	
Banda, Michael J.	Computing Sciences Directorate	<b>X</b>
Bercovitz, John H.	Mechanical Safety Subcommittee	
Blodgett, Paul M.	Environment, Health and Safety Division	<b>X</b>
Feinberg, Benedict	Advanced Light Source Division	
Fletcher, Kenneth A.	Facilities Department	
Hugenholtz, Phil	Genomics Division	<b>X</b>
Kadel, Richard W.	Physics Division	<b>X</b>
Kennedy, Burton Mack	Earth Sciences Division	
Lucas, Donald	Environmental Energy Technologies Division	<b>X</b>
Macchiavelli, Augusto O.	Nuclear Science Division	
Mueller, Robert	Electrical Safety Subcommittee	
Ramorino, Karen B.	Directorate/OCFO/Human Resources	
Rao, Linfeng	Chemical Sciences Division	<b>X</b>
Schoenlein, Robert W.	Laser Safety Subcommittee	
Seidl, Peter A.	Accelerator & Fusion Research Division	
Smith, Linda K.	Emergency Preparedness Safety Subcommittee	
Taylor, Scott E.	Life Sciences Division	<b>X</b>
Thomas, Patricia M.	Safety Review Committee Secretary	<b>X</b>
Wong, Weyland	Engineering Division	<b>X</b>
Yokota, Hisao A.	Physical Biosciences Division	

### **Others Present**

John Chernowski, Richard DeBusk, Jim Floyd, Esther Lam, Phyllis Pei, Donna Spencer

### **Chairman's Comments – Don Lucas**

The minutes of the July meeting were accepted.

### **MESH Status**

- EH&S – The draft report is nearly complete and will be sent to EH&S for fact checking.
- Life Sciences – The report is being written.
- Computing Sciences – The review is scheduled for August 22-26.
- Directorate – Scheduling is difficult. The review may be scheduled in September.

Don Lucas asked Pat Thomas to contact the Division Directors as the reviews are completed and schedule their presentations, beginning in October. John Chernowski said

closeout meetings of MESH teams with Division Directors are not required, but if they are held, the DOE observer should be invited. If there is no closeout meeting, then the observer should be given a copy of the final report.

### **Contingency & Recovery Planning – Jim Floyd**

LBNL wants to establish a rational process for responding to major incidents so we can avoid some of the problems that occurred during the LANL and SLAC shutdowns. The priority is to assure no other accidents occur during the investigation. Defining the scope of the investigation is crucial. If defined too broadly, resources are diluted by unnecessary investigation. If defined too narrowly, vulnerabilities may be missed. The Lab Director would determine when the contingency plan would be implemented.

The EH&S Director would assemble the incident review team, including line management, matrix management, subject matter experts, and BSO. The appropriate level of BSO involvement will be discussed with Aundra Richards. The initial assessment of the scope and depth of the problem may change as the review progresses because additional information will usually be discovered during the review. Any shut down or restart of activities needs to be coordinated with line management so the impacts are understood and the shutdown doesn't cause more harm. We need to plan for a safe shutdown. The closure path needs to be determined, so we know what the "on switch" looks like before we "turn off" an activity. The proposal is to use a graded approach to incident response, considering the scope and severity of the problem. We will need to determine the nature and extent of operations affected, considering:

- Was the cause systemic or local?
- Were there precursor events or warning signs?
- Were there inadequacies in the ISM system or its implementation?
- How severe are the consequences?

Experiences with past incident investigations can be used as examples. Were actions taken in the past useful and effective?

We must be prepared for the possibility of work suspensions being imposed by DOE or other authorities. There are two "type B" investigations going on at LANL now. The PUB-3000 work authorization process can be used as a framework for restart readiness review and authorization, but with a higher level of line management review and more institutional safety committee input. We need to define the critical activities and equipment that must stay operational to maintain safety. We will need a credible explanation for the proposed scope of the response.

The response to most incident investigations is to require more documentation. SRC members commented that new documentation does not always contribute to preventing accidents. If the safety systems here are too complex, some people may decide to take their work off-site to locations that are less controlled, and that would not improve safety.

David McGraw is ready to discuss the proposed approach with Aundra Richards. There were no objections from SRC members to going forward with the proposal.

### **Carrots and Sticks: Spot Awards and Contract Provisions – Paul Blodgett**

Safety spot awards this year are authorizations for Divisions to spend their own money to award employees for actions that promote safety. Next year, EH&S is hoping to have some funding available for safety spot awards. Please forward nominations for spot awards to Peter Lichty.

The terms of the new LBNL contract with DOE are still being negotiated with DOE. There is a potential award fee of \$4.5 million a year if performance objectives are met. The award fee goes into our R&D funding. Safety is one component of the performance measures. The fee can be reduced for performance failures.

A first-degree failure would be one Type A accident or 2 second-degree failures. An example of a Type A accident would be a fatality other than a traffic accident. The secretarial officer (Ray Orbach) determines which events are Type A or Type B. A first-degree failure may result in a fee reduction of 26 – 100%.

A second-degree failure would be one Type B accident, or an ISM noncompliance resulting in a near miss of a type A or type B accident. A second-degree failure may result in a fee reduction of 26 – 100%. The last type B accident investigation at LBNL was for a construction accident in 1982. Following the electrical near miss at Bldg. 58, Aundra Richards wrote a letter to UCOP describing the incident as a potential second-degree failure. LBNL can respond to DOE with mitigating factors. A letter was written in response to the Bldg. 58 event.

The weighting of the performance measures is being negotiated. Accident rates will be part of the performance score, but the weighting factor has not been decided.

Another provision of the new contract says that DOE can fire any LBNL employee directly. This has never been done before and we are not sure what the outcome would be.

### **EHS0026 ES&H for Supervisors, Managers, and PIs – Esther Lam**

The EHS0020 course has been required for operations division supervisors since 2004. EH&S has developed a new course for supervisors, managers, and PIs in research divisions. It has been proposed that LBNL commit to 70% compliance with completion of supervisor training by September 2006. **[UPDATE: LBNL has committed to 80% compliance with completion of supervisor training by September 2006.]** Two pilot classes were conducted in Earth Sciences Division and the course content was improved in response to the feedback. Division Safety Coordinators have been briefed and it will be rolled out to Division Directors. Initially, EH&S is using the Human Resources database coding to identify supervisors, but the HR coding doesn't capture everyone who actually supervises work. In addition to data received from HR, Division Directors, Division Safety Coordinators and Liaisons will assist in identifying people with supervisory responsibilities, but not coded as so in the database. Division

Directors will decide who needs to be trained. People who have already completed EHS0020 may be granted credit for equivalence.

The course content includes a description of Integrated Safety Management, supervisors' roles and responsibilities, resources and tools available, and case studies. The format includes lectures, discussion, and activities. Classes are taught by Esther Lam and a senior EH&S staff member. Each class is a two-hour session. Classes will be scheduled twice a month, once for a specific division and once for a general audience. The course is most effective when it is division-specific, with participation of the division safety coordinator, liaison, and division management, and discussion of the division's ISM Plan.

There is no refresher requirement at this time. The plan is to establish ongoing on-line communication with the people who have completed the course. SRC members recommended that EH&S consider requiring periodic refresher training.

## **CLOSED SESSION**

### **Draft FY06 DOE Contract, EHS Section – Eugene Lau**

The meeting was adjourned at 11:45 AM

Respectfully submitted,

Patricia M. Thomas, SRC Secretary